



# **The Sewerage & Water Board**

## **OF NEW ORLEANS**

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**July 26, 2022**

Dear Mayor Cantrell, Honorable Members of the New Orleans City Council, and Orleans Parish Delegation:

This report is delivered in accordance which Revised Statute 33:4091, Section F, which states: *“In addition to the other requirements of this Section, the board shall send a report, by electronic mail, to the members of the Orleans Parish legislative delegation and the members of the governing authority of Orleans Parish detailing the pumping and electrical power of its facilities and the available manpower no later than twenty-four hours prior to a hurricane entering the Gulf of Mexico as determined by the National Weather Service and no later than forty eight hours after a flood watch or warning or thunderstorm watch or warning is issued by the National Weather Service for any area of Orleans Parish.”*

On Saturday, July 22, 2022, the National Weather Service issued a flood advisory associated with a thunderstorm that passed over Orleans Parish between approximately 4:10 and 6:15 p.m. Below is the status of SWBNO’s pumping and power equipment and facilities before and during the event.

### **STORM IMPACTS**

As has been the case with many rain events this summer, this storm produced short but very high-intensity rainfall in some areas of the city. DPS 6, on the border between Orleans and Jefferson parishes, received over 3 inches of rain in about 1.25 hours. The highest recorded rain intensity was 6.6 inches/hour at DPS 4 in Gentilly. The high-intensity rain caused street flooding in affected neighborhoods until the stormwater made its way into the drainage system and could be pumped.

## **PUMPING AND POWER**

Below is the status of SWBNO's pumping and power equipment at the outset of the event.

### **Drainage Pumps:**

A total of 95 of 99 drainage pumps were available at the outset of the event.

**DPS 6: I pump out of service, awaiting shaft replacement; return to service Q1 2023**

**DPS 11: E pump out of service due to an oil leak; return to service in mid-August**

**DPS 13: No. 4 pump designated emergency use only; in-depth inspection underway**

**DPS 16: No. 2 pump out of service; in-house staff are investigating and making repairs**

There was a recorded lightning strike at DPS 12 during this event, but it did not affect pumping capabilities.

Unrelated to the storm, the SWBNO operations team removed C and D Pumps at DPS 6 over the weekend to test new electrical relays for those 25Hz assets. The tests were completed successfully, and both pumps are again available for use.

### **Underpass Stations:**

All 27 underpass station pumps (UPS) were available and ready for use during the event. There were no reported issues with the underpass pumps.

### **Power:**

Turbines 4 and 5 were utilized for this event and performed well. Turbine 6, frequency changers, and four out of five EMDs were also available for use. Note that frequency changer #3 at Station D is presently offline for scheduled cleaning and maintenance. The remainder of the power assets were utilized as needed and performed as expected during the rainfall event.

<b>Unit*</b>	<b>Frequency</b>	<b>Capacity in MW</b>	<b>Available</b>
T4	25 Hz	20 MW	18
T5**	25 Hz	20 MW	17.5
Carrollton Frequency Changers 1&2	Converts 60 to 25Hz	8.5 MW	8.5

Station D Frequency Changers 3&4	Converts 60 to 25Hz	12 MW	6 (#3 offline for scheduled maintenance)
West Bank Power Complex (Algiers Water Treatment Plant)	Converts 60 to 25Hz	2.5 MW	2.5
Five EMDs	25Hz	12.5 MW (total) 2.5 MW (each)	10
T6 (via Plant Frequency Changer)	Converts 60 to 25Hz	3.75 MW	3.75
		Total 25 Hz:	<b>62.5 MW</b>
T6	60 Hz	22 MW	<b>22 MW</b>

\*T3 has been decommissioned as of May 2021, and T1 has been decommissioned as of June 2022. Both units have been removed from this table.

\*\* T5 was tested up to 17.5MW during the pre-start and commissioning stage.

## STAFFING

Of New Orleans' 24 drainage pumping stations, some are staffed, some run remotely, and some are staffed as circumstances dictate. For this event, all stations were staffed appropriately.